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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/869,184	06/20/2001	Marcus Menden	E02P01US	2261		
75	590 10/07/2002		•			
Gudrun E Huckett PO Box 3187 Albuquerque, NM 87190-3187			EXAMINER			
			TON, ANABEL			
			ART UNIT	PAPER NUMBER		
			2875			
			DATE MAILED: 10/07/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

1 4	Ар	plication No.	A	pplicant(s)				
,		/869,184	M	MENDEN, MARCUS				
Offic Action Summa	ary Ex	aminer	Aı	rt Unit				
	An	abel M Ton	28	375				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status	on(s) filed on 20 June	2001						
1) Responsive to communication2a) This action is FINAL.		zion is non-final.						
/ -	<i>,</i> —		matters, prose	ecution as to th	e merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) 43-80 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed	i .							
6)⊠ Claim(s) <u>43-80</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to		□	bu tha Fuancia					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
·	The second secon							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)	C.G.III TOT GOTTIOGRO PI		33	· - · ·				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing F 3) Information Disclosure Statement(s) (PTO		5) Notic	e of Informal Pate	PTO-413) Paper No ent Application (PT				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 43- 58,60-70 and 75-80 are rejected under 35 U.S.C. 102(e) as being anticipated by Filipovsky et al (WO 99/39319).
- 3. Filipovsky discloses a number of printed circuit boards provided with LEDs, cables for connecting the printed circuit boards to one another and/or for connecting the printed circuit boards to a voltage source, attachment elements for attaching the printed circuit boards to a desired location (figs 12-14)
 - At least one transformer for transforming a mains voltage to an operating voltage of the LEDs, wherein the transformer is voltage stabilized;

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- The LEDs are arranged on, in each case, one flat side of a printed circuit board, wherein the surface of the flat side, fitted with the LEDs, of each printed circuit board is significantly smaller than the surface to be illuminated (figs 12-14)
- The printed circuit boards have different sizes
- Each printed circuit board has at least two connecting points, each with a positive lead and a negative lead for current, wherein the cables are connected by means of a standardized plug to the connecting points (figs 12-14, 1c)
- The connecting points and the plug are embodied in such a way that a plug which is connected to a connecting point protects the positive and negative leads against moisture;
- The plug has a latching element which, after the plug has been fitted onto a
 printed circuit board, latches with a corresponding element provided for that
 purpose on the printed circuit boards.
- The transformer is protected against moisture.
- At least one regulating module for regulating selectively a power supply to at least one of individual ones of the printed circuit boards and individual ones of the LEDs on the printed circuit boards (claims 12-14);
- An attachment element having at least one bearing surface for a printed circuit board and a mounting element which latches to the printed circuit board and presses the printed circuit board against the bearing surface. (1c);
- A power supply unit with a DEAD-OFF module, which terminates the life of the power, supply unit if overheating by a predefined limiting value occurs (claim 25).

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 A control module configured to automatically switching on or off the lighting system when predefinable peripheral conditions occur, for example times or brightness levels (claim 3).

- A regulating module configured to selectively regulate the power supply of individual printed circuit boards and/or individual LEDs on the printed circuit boards (claim 22);
- A power supply unit being vacuum sealed and configured for external use;
- A solar module comprising a buffer battery and a voltage monitor (page 13, lines 3-25);
- At least one protective resistor configured to protect the LEDs;
- Preferably two to four LEDs, are connected in series with one protective resistor in each case on each printed circuit board;
- All of the LEDs are arranged on one flat side of the printed circuit board, wherein no other components protruding from the flat side are arranged on the flat side on which the LEDs are arranged;
- The flat side on which the LEDs are arranged is constructed so as to reflect light, and is in particular white or mirror-coated;
- The printed circuit board is weather-resistant and has a coating which protects the conductor tracks and the LEDs against moisture;
- All the LEDs provided on the printed circuit board irradiate light of the same color;

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 The LEDs are arranged on the printed circuit board in each case in groups of three located close to one another, a group of three comprised of LEDs with three different colors and being are suitable for additive color mixing;

- At least three LEDs are arranged in a straight line on the printed circuit board, the distance between two adjacent LEDs being approximately 14 to 20;
- An opening configured to receive an attachment element for attaching the printed circuit board.
- At least two connecting points, each with a positive lead and a negative lead for current, wherein each one of the connecting points is configured to be connected to standardized plugs.
- A guide groove arranged in the vicinity of each connecting point and configured to guide one of the plugs.
- A corresponding element, which is at least partially complementary to a latching element of a plug, provided in the vicinity of each connecting point;
- The corresponding element is a mounting opening.
- Illumination method comprising the steps of: providing a number of printed circuit boards provided with LEDs; connecting the printed circuit boards to one another and/or to a voltage source by cables; attaching the printed circuit boards to a desired location by attachment elements (claims 1-21)
- An attachment element having a flat side and a self-adhesive film provided on the flat side;

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Claim R jecti ns - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 59,71-74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Flipovsky.
- 6. With regards to the LED's having an irradiation angle of 150 preferably 175 to 180 degrees, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have such an irradiation angle emitted from an LED since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.
- 7. With regards to the printed circuit board is approximately 50 to 60 mm long, approximately 8 to 16 mm wide and approximately 1 to 3 mm thick, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have such a sized printed circuit board, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

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- 8. With regards to six LEDs are arranged in a straight line and the printed circuit board is approximately 90 to 120 mm long, approximately 8 to 16 mm wide and approximately 1 to 3 nm thick, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have such a sized printed circuit board, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.
- 9. With regards to nine LEDs are arranged offset from one another in a zigzag shape on two straight lines on the printed circuit board, the distance between the two lines being approximately 25 to 35 mm and the distance between two adjacent LEDs arranged on a line being approximately 30 to 40 mm, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have such a sized printed circuit board, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M Ton whose telephone number is (703) 305-1084. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

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305-3431 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

> Anabel M Ton Examiner Art Unit 2875

AMT October 1, 2002

Supervisory Patent Examiner Technology Center 2800